CHARGE NUMBER: 2306

PROJECT TITLE: Flavor Transfer

PROJECT LEADER: R. M. Ikeda

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I. Oriental Flavor

An investigation was carried out to compare Fraction 5 which contains the characteristic Oriental smoke flavor from samples of MF Oriental blend and Thai Oriental tobacco. The acids liberated from Fraction 5 with sodium hydroxide showed a peak height ratio of 2/1 of β-methyvaleric acid/valeric acid for the Thai Oriental tobacco and a ratio of 5/1 for the MF Oriental blend. This higher ratio of β-methyvaleric acid/valeric acid may be an indication of the higher Oriental smoke flavor and sidestream odor observed in the MF Oriental blend.

In order to obtain a larger sample of Fraction 5 for identification of the material responsible for the Oriental smoke flavor, two samples of the best grade of Oriental tobacco are being investigated.

II. Burley Flavor

A 200 g sample of Burley tobacco was extracted with methylene chloride. The extract was separated into acid, base and neutral fractions. The neutral fraction was steam distilled and extracted with methylene chloride. The distillate was separated by silicic acid column chromotography into 12 fractions. Fraction with best odors were 7, 8 and 9. Fraction 8 was separated packed column GC and the "peaks" were collected. These collected fractions were rechromatographed on glass capillary GC/MS. Over 100 "peaks" were identified by GC/MS in fraction 8.

III. References

1. Notebook #7464, pp. 25-30
2. Notebook #7483, pp. 5-14

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